IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application Nos:
12/046,336
12/717,391
12/906,285   Customer No.: 30678
09/275,276
11/182,809
11/208,882
11/208,883
10/767,265
11/261,762
11/424,610
10/750,949
10/931,079
10/931,191
11/680,684
12/120,787
12/199,024
12/047,408
13/027,009

Revocation and Power of Attorney

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

All previous powers of attorney and authorizations of agent are hereby revoked, and the

undersigned hereby appoints the attorneys and agents of Connolly Bove Lodge & Hutz LLP

associated with U.S. Patent and Trademark Office ("PTO") Customer Number 30678 to

prosecute these applications and any U.S., foreign, or international applications under the Patent

Cooperation Treaty based on them and to transact all business in the PTO connected therewith,

and to receive all communications from the PTO, including the patent documents. Further

details about each application are found in the Appendix to this paper. The authority under this

Power of Attorney of each person listed under the aforementioned PTO Customer Number shall

automatically terminate and be revoked upon such person ceasing to be associated with Connolly Bove Lodge & Hutz LLP.
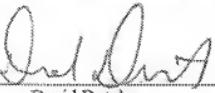
Designation of Correspondence Address

Please associate these applications with PTO Customer Number 30678 and send all notices, official letters, documents, communications, and other correspondence regarding these applications to the address:

<div align="center">

Connolly Bove Lodge & Hutz LLP
1875 Eye Street NW, Suite 1100
Washington, DC 20006

</div>

or to the address currently associated with PTO Customer Number 30678.

Certificate Under 37 C.F.R. § 3.73(b)

Intellectual Ventures I LLC is the assignee of the entire right, title, and interest in these patents and applications by virtue of the chains of assignment shown in the attached Appendix, which are recorded in the records of the PTO. To the best of the undersigned's knowledge and belief, the titles are in the name of said assignee. The undersigned, whose title is supplied below, is empowered to sign this certificate on behalf of Intellectual Ventures I LLC.

Signed: _____   Date: 3/11/11

Name: David Dutcher

Title: Authorized Person for Intellectual Ventures I LLC

APPENDIX: DETAILS OF LISTED APPLICATIONS

Application No.: 12/046,336
Confirmation No.: 1968
Patent No.: 7,890,899
Filing Date: March 11, 2008
First Named Inventor: Laurence H. Cooke
Title: Variable Clocked Scan Test Improvements
Attorney Docket No.: 27592-01022-US3
Chain of Title:
1) Inventors to On-Chip Technologies, Inc.
      Executed: July 15, 2005
      Recorded: July 18, 2005 at Reel 016790/Frame 0990

2) On-Chip Technologies, Inc. to OC Applications Research LLC
      Executed: March 13, 2008
      Recorded: April 4, 2008 at Reel 020753/Frame 0337

3) OC Applications Research LLC to Intellectual Ventures I LLC
      Executed: December 7, 2010
      Recorded: December 7, 2010 at Reel 025467/Frame 0063

Application No.: 11/182,809
Confirmation No.: 8379
Patent No.: 7,353,470
Filing Date: July 18, 2005
First Named Inventor: Laurence H. Cooke
Title: Variable Clocked Scan Test Improvements
Attorney Docket No.: 27592-01022-US2
Chain of Title:
1) Inventors to On-Chip Technologies, Inc.
      Executed: July 15, 2005
      Recorded: July 18, 2005 at Reel 016790/Frame 0990

2) On-Chip Technologies, Inc. to OC Applications Research LLC
      Executed: March 13, 2008
      Recorded: April 4, 2008 at Reel 020753/Frame 0337

3) OC Applications Research LLC to Intellectual Ventures I LLC
      Executed: December 7, 2010
      Recorded: December 7, 2010 at Reel 025467/Frame 0063

Application No.: 12/717,391
Confirmation No.: 2688
Patent No.: TBD
Filing Date: March 4, 2010
First Named Inventor: Bulent Dervisoglu
Title: On-Chip Service Processor
Attorney Docket No.: 27592-01021-US6
Chain of Title:
1) Inventors to On-Chip Technologies, Inc.
      Executed: January 29, 2004
      Recorded: January 30, 2004 at Reel 014948/Frame 0318

2) On-Chip Technologies, Inc. to OC Applications Research LLC
      Executed: March 13, 2008
      Recorded: April 4, 2008 at Reel 020753/Frame 0337

3) OC Applications Research LLC to Intellectual Ventures I LLC
      Executed: December 7, 2010
      Recorded: December 7, 2010 at Reel 025467/Frame 0063

Application No.: 11/424,610
Confirmation No.: 4038
Patent No.: 7,836,371
Filing Date: June 16, 2006
First Named Inventor: Bulent Dervisoglu
Title: On-Chip Service Processor
Attorney Docket No.: 27592-01021-US6
Chain of Title:
1) Inventors to On-Chip Technologies, Inc.
      Executed: January 29, 2004
      Recorded: January 30, 2004 at Reel 014948/Frame 0318

2) On-Chip Technologies, Inc. to OC Applications Research LLC
      Executed: March 13, 2008
      Recorded: April 4, 2008 at Reel 020753/Frame 0337

3) OC Applications Research LLC to Intellectual Ventures I LLC
      Executed: December 7, 2010
      Recorded: December 7, 2010 at Reel 025467/Frame 0063

Application No.: 11/261,762
Confirmation No.: 8919
Patent No.: 7,080,301
Filing Date: October 31, 2005
First Named Inventor: Bulent Dervisoglu
Title: On-Chip Service Processor
Attorney Docket No.: 27592-01021-US4
Chain of Title:
1) Inventors to On-Chip Technologies, Inc.
      Executed: January 29, 2004
      Recorded: January 30, 2004 at Reel 014948/Frame 0318

2) On-Chip Technologies, Inc. to OC Applications Research LLC
      Executed: March 13, 2008
      Recorded: April 4, 2008 at Reel 020753/Frame 0337

3) OC Applications Research LLC to Intellectual Ventures I LLC
      Executed: December 7, 2010
      Recorded: December 7, 2010 at Reel 025467/Frame 0063

Application No.: 10/767,265
Confirmation No.: 4852
Patent No.: 6,964,001
Filing Date: January 30, 2004
First Named Inventor: Bulent Dervisoglu
Title: On-Chip Service Processor
Attorney Docket No.: 27592-01021-US3
Chain of Title:
1) Inventors to On-Chip Technologies, Inc.
      Executed: January 29, 2004
      Recorded: January 30, 2004 at Reel 014948/Frame 0318

2) On-Chip Technologies, Inc. to OC Applications Research LLC
      Executed: March 13, 2008
      Recorded: April 4, 2008 at Reel 020753/Frame 0337

3) OC Applications Research LLC to Intellectual Ventures I LLC
      Executed: December 7, 2010
      Recorded: December 7, 2010 at Reel 025467/Frame 0063

Application No.: 09/275,726
Confirmation No.: 1134
Patent No.: 6,687,865
Filing Date: March 24, 1999
First Named Inventor: Bulent Dervisoglu
Title: On-Chip Service Processor for Test and Debug of Integrated Circuits
Attorney Docket No.: 27592-01021-US2
Chain of Title:
1) Inventors to On-Chip Technologies, Inc.
      Executed: July 19, 1999 and July 24, 1999
      Recorded: August 2, 1999 at Reel 010135/Frame 0168

2) On-Chip Technologies, Inc. to OC Applications Research LLC
      Executed: March 13, 2008
      Recorded: April 4, 2008 at Reel 020753/Frame 0337

3) OC Applications Research LLC to Intellectual Ventures I LLC
      Executed: December 7, 2010
      Recorded: December 7, 2010 at Reel 025467/Frame 0063

Application No.: 13/027,009
Confirmation No.: 5965
Patent No.: TBD
Filing Date: February 14, 2011
First Named Inventor: Bulent Dervisoglu
Title: On-Chip Service Processor
Attorney Docket No.: 27592-01021-US7
Chain of Title:
1) Inventors to On-Chip Technologies, Inc.
      Executed: January 29, 2004
      Recorded: January 30, 2004 at Reel 014948/Frame 0318

2) On-Chip Technologies, Inc. to OC Applications Research LLC
      Executed: March 13, 2008
      Recorded: February 14, 2011 at Reel 025805/Frame 0816

3) OC Applications Research LLC to Intellectual Ventures I LLC
      Executed: December 7, 2010
      Recorded: February 14, 2011 at Reel 025805/Frame 0853

Application No.: 11/208,882
Confirmation No.: 9831
Patent No.: 7,421,563
Filing Date: August 23, 2005
First Named Inventor: Laurence H. Cooke
Title: Hashing and Serial Decoding Techniques
Attorney Docket No.: 27592-01024-US1
Chain of Title:
1) Inventor to On-Chip Technologies, Inc.
      Executed: August 22, 2005
      Recorded: August 23, 2005 at Reel 016915/Frame 0403

2) On-Chip Technologies, Inc. to OC Applications Research LLC
      Executed: March 13, 2008
      Recorded: April 4, 2008 at Reel 020753/Frame 0337

3) OC Applications Research LLC to Intellectual Ventures I LLC
      Executed: December 7, 2010
      Recorded: December 7, 2010 at Reel 025467/Frame 0063

Application No.: 12/199,024
Confirmation No.: 5184
Patent No.: 7,818,538
Filing Date: August 27, 2008
First Named Inventor: Laurence H. Cooke
Title: Hashing and Serial Decoding Techniques
Attorney Docket No.: 27592-01024-US2
Chain of Title:
1) Inventor to On-Chip Technologies, Inc.
      Executed: August 22, 2005
      Recorded: August 23, 2005 at Reel 016915/Frame 0403

2) On-Chip Technologies, Inc. to OC Applications Research LLC
      Executed: March 13, 2008
      Recorded: April 4, 2008 at Reel 020753/Frame 0337

3) OC Applications Research LLC to Intellectual Ventures I LLC
      Executed: December 7, 2010
      Recorded: December 7, 2010 at Reel 025467/Frame 0063

Application No.: 12/906,285
Confirmation No.: 9794
Patent No.: TBD
Filing Date: October 18, 2010
First Named Inventor: Laurence H. Cooke
Title: Hashing and Serial Decoding Techniques
Attorney Docket No.: 27592-01024-US3
Chain of Title:
1) Inventor to On-Chip Technologies, Inc.
      Executed: August 22, 2005
      Recorded: August 23, 2005 at Reel 016915/Frame 0403

2) On-Chip Technologies, Inc. to OC Applications Research LLC
      Executed: March 13, 2008
      Recorded: January 5, 2011 at Reel 025583/Frame 0802

3) OC Applications Research LLC to Intellectual Ventures I LLC
      Executed: December 7, 2010
      Recorded: December 7, 2010 at Reel 025467/Frame 0063

Application No.: 11/208,883
Confirmation No.: 9834
Patent No.: 7,421,636
Filing Date: August 23, 2005
First Named Inventor: Laurence H. Cooke
Title: Scan String Segmentation for Digital Test Compression
Attorney Docket No.: 27592-01025-US1
Chain of Title:
1) Inventor to On-Chip Technologies, Inc.
      Executed: August 22, 2005
      Recorded: August 23, 2005 at Reel 016915/Frame 0359

2) On-Chip Technologies, Inc. to OC Applications Research LLC
      Executed: March 13, 2008
      Recorded: April 4, 2008 at Reel 020753/Frame 0337

3) OC Applications Research LLC to Intellectual Ventures I LLC
      Executed: December 7, 2010
      Recorded: December 7, 2010 at Reel 025467/Frame 0063

Application No.: 12/120,787
Confirmation No.: 5660
Patent No.: 7,620,865
Filing Date: May 15, 2008
First Named Inventor: Laurence H. Cooke
Title: Scan String Segmentation for Digital Test Compression
Attorney Docket No.: 27592-01025-US2
Chain of Title:
1) Inventor to On-Chip Technologies, Inc.
     Executed: August 22, 2005
     Recorded: August 23, 2005 at Reel 016915/Frame 0359

2) On-Chip Technologies, Inc. to OC Applications Research LLC
     Executed: March 13, 2008
     Recorded: January 5, 2011 at Reel 025583/Frame 0802

3) OC Applications Research LLC to Intellectual Ventures I LLC
     Executed: December 7, 2010
     Recorded: December 7, 2010 at Reel 025467/Frame 0063

Application No.: 10/750,949
Confirmation No.: 2063
Patent No.: 7,197,681
Filing Date: January 5, 2004
First Named Inventor: Bulent Dervisoglu
Title: Accelerated Scan Circuitry and Method for Reducing Test Data Volume and Execution Time
Attorney Docket No.: 27592-01020-US3
Chain of Title:
1) Inventor (Laurence H. Cooke) to On-Chip Technologies, Inc.
     Executed: April 15, 2003
     Recorded: May 9, 2003 at Reel 014056/Frame 0571

2) Inventors to On-Chip Technologies, Inc.
     Executed: December 18, 2003
     Recorded: January 5, 2004 at Reel 014872/Frame 0001

3) On-Chip Technologies, Inc. to OC Applications Research LLC
     Executed: March 13, 2008
     Recorded: April 4, 2008 at Reel 020753/Frame 0337

4) OC Applications Research LLC to Intellectual Ventures I LLC
     Executed: December 7, 2010
     Recorded: December 7, 2010 at Reel 025467/Frame 0063

Application No.: 10/931,079
Confirmation No.: 9004
Patent No.: 7,188,286
Filing Date: September 1, 2004
First Named Inventor: Bulent Dervisoglu
Title: Accelerated Scan Circuitry and Method for Reducing Test Data Volume and Execution Time
Attorney Docket No.: 27592-01020-US4
Chain of Title:
1) Inventor (Laurence H. Cooke) to On-Chip Technologies, Inc.
     Executed: April 15, 2003
     Recorded: May 9, 2003 at Reel 014056/Frame 0571

2) Inventors to On-Chip Technologies, Inc.
     Executed: December 18, 2003
     Recorded: January 5, 2004 at Reel 014872/Frame 0001

3) On-Chip Technologies, Inc. to OC Applications Research LLC
     Executed: March 13, 2008
     Recorded: April 4, 2008 at Reel 020753/Frame 0337

4) OC Applications Research LLC to Intellectual Ventures I LLC
     Executed: December 7, 2010
     Recorded: December 7, 2010 at Reel 025467/Frame 0063

Application No.: 10/931,191
Confirmation No.: 1641
Patent No.: 7,200,784
Filing Date: September 1, 2004
First Named Inventor: Bulent Dervisoglu
Title: Accelerated Scan Circuitry and Method for Reducing Test Data Volume and Execution Time
Attorney Docket No.: 27592-01020-US5
Chain of Title:
1) Inventor (Laurence H. Cooke) to On-Chip Technologies, Inc.
      Executed: April 15, 2003
      Recorded: May 9, 2003 at Reel 014056/Frame 0571

2) Inventors to On-Chip Technologies, Inc.
      Executed: December 18, 2003
      Recorded: January 5, 2004 at Reel 014872/Frame 0001

3) On-Chip Technologies, Inc. to OC Applications Research LLC
      Executed: March 13, 2008
      Recorded: April 4, 2008 at Reel 020753/Frame 0337

4) OC Applications Research LLC to Intellectual Ventures I LLC
      Executed: December 7, 2010
      Recorded: December 7, 2010 at Reel 025467/Frame 0063

Application No.: 11/680,684
Confirmation No.: 5701
Patent No.: 7,752,515
Filing Date: March 1, 2007
First Named Inventor: Bulent Dervisoglu
Title: Accelerated Scan Circuitry and Method for Reducing Test Data Volume and Execution Time
Attorney Docket No.: 27592-01020-US6
Chain of Title:
1) Inventor (Laurence H. Cooke) to On-Chip Technologies, Inc.
     Executed: April 15, 2003
     Recorded: May 9, 2003 at Reel 014056/Frame 0571

2) Inventors to On-Chip Technologies, Inc.
     Executed: December 18, 2003
     Recorded: January 5, 2004 at Reel 014872/Frame 0001

3) On-Chip Technologies, Inc. to OC Applications Research LLC
     Executed: March 13, 2008
     Recorded: April 4, 2008 at Reel 020753/Frame 0337

4) OC Applications Research LLC to Intellectual Ventures I LLC
     Executed: December 7, 2010
     Recorded: December 7, 2010 at Reel 025467/Frame 0063

Application No.: 12/047,408
Confirmation No.: 2972
Patent No.: RE41,187
Filing Date: March 13, 2008
First Named Inventor: Laurence H. Cooke
Title: Accelerated Scan Circuitry and Method
Attorney Docket No.: 27592-01020-US7
Chain of Title:
1) Inventor to On-Chip Technologies, Inc.
     Executed: April 15, 2003
     Recorded: May 9, 2003 at Reel 014056/Frame 0571

2) On-Chip Technologies, Inc. to OC Applications Research LLC
     Executed: March 13, 2008
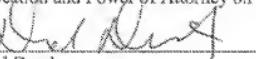   Recorded: April 4, 2008 at Reel 020753/Frame 0337

3) OC Applications Research LLC to Intellectual Ventures I LLC
     Executed: December 7, 2010
     Recorded: December 7, 2010 at Reel 025467/Frame 0063

DECLARATION REGARDING AUTHORITY TO SIGN
ON BEHALF OF A LEGAL ENTITY
37 C.F.R. 3.73(b)(2)(ii)

I, David Dutcher (whose title is supplied below), hereby declare that I am authorized to sign the Revocation and Power of Attorney on behalf of Intellectual Ventures I LLC.

David Dutcher
Authorized Person for Intellectual Ventures I LLC

3/11/11
Date